

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A water temperature sensor comprising:
a temperature measuring part for measuring a temperature of water;
a water gauge chamber extending along an outer side of an outer edge of
an outer tub of a washing machine; and
a hollow chamber cap located at a bottom edge of the water gauge
chamber, the hollow chamber cap having an upper side which is substantially
flat,
wherein substantially an entire upper surface of the upper side of the
hollow cap is exposed to the water in the water gauge chamber, and
wherein a lower surface of the upper side of the hollow cap is formed
with a recess serving as a seating portion, the temperature measuring part
being mounted in a said seating portion of the hollow chamber cap.

2. (Previously Presented) The water temperature sensor of claim 1,
further comprising a heat insulating material inserted into a hollow space of
the hollow chamber cap to achieve an adiabatic effect and to fasten said
temperature measuring part within said chamber cap.

3. (Currently Amended) A water temperature sensor comprising:

a temperature measuring part including a temperature detecting sensor for measuring the temperature of water, and signal lines for connecting the temperature detecting sensor with a circuit requiring the measured value; and

a hollow chamber cap fitting into and thereby closing an opened bottom portion of a water gauge chamber, a hollow space of the hollow chamber cap facing downward, and ~~the water in the water gauge chamber being above the hollow chamber cap, the hollow chamber cap having an upper side which is~~ substantially flat,

wherein substantially an entire upper surface of the upper side of the hollow cap is exposed to the water in the water gauge chamber,

wherein a lower surface of the upper side of the hollow cap is formed with a recess serving as a seating portion,

wherein the temperature measuring part is disposed in ~~a recess formed underneath a top surface~~ said seating portion of the hollow chamber cap, so that the water temperature is measured without directly contacting with the water.

4. (Previously Presented) The water temperature sensor of claim 3, further comprising a heat insulating material inserted into the hollow space of

the hollow chamber cap to achieve an adiabatic effect and to fasten said temperature measuring part within said chamber cap.

5. (Currently Amended) A water temperature sensor comprising:

a temperature measuring part including a temperature detecting sensor for measuring the temperature of water, signal lines for connecting the temperature detecting sensor with a circuit requiring the measured value, and a cylindrical probe containing the temperature detecting sensor and the signal lines;

an outer tub of a washing machine having a bottom that is substantially flat, a side that is substantially cylindrical in shape, and a tapered portion between the bottom and the side;

a water gauge chamber extending along a portion of an outer surface of the cylindrical-shaped side and the tapered portion of the outer tub ~~side of an outer edge of an outer tub of a washing machine,~~ and

a hollow chamber cap, located on a bottom edge of the water gauge chamber and overlapping the tapered portion of the outer tub,

wherein a cylindrical probe of the temperature measuring part extends upward from within the hollow chamber cap through a hole at a center of the hollow chamber cap, thereby directly contacting a washing water in the water gauge chamber after penetrating the hole.

6. (Previously Presented) The water temperature sensor of claim 5, further comprising a heat insulating material inserted into a hollow space of the hollow chamber cap to achieve an adiabatic effect and to fasten said temperature measuring part within said chamber cap.

7. (Canceled)

8. (Previously Presented) The water temperature sensor of claim 1, wherein the hollow chamber cap is welded to the bottom edge of the water gauge chamber.

9. (Currently Amended) The water temperature sensor of claim 1, wherein a lower portion of a side of the outer tub is tapered inwardly toward a bottom of the outer tub, and ~~a bottom edge of the hollow chamber cap is substantially level with a bottom edge of the outer tub~~ overlaps the portion tapered inwardly.

10. (Previously Presented) The water temperature sensor of claim 1, wherein the hollow chamber cap is formed of plastic.